Chapter Comm 18

ELEVATORS, ESCALATORS AND LIFT DEVICES

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Note: Conveyors, personnel hoists and manlifts located in the private sector are covered by the Occupational Safety and Health Act of 1970. In the public sector, this equipment is covered by ch. Comm 32.

(2) Exempted equipment. This chapter does not apply to any of the following equipment:
(a) Personnel hoists within the scope of ANSI A10.4.
(b) Material hoists within the scope of ANSI A10.5.
(c) Manlifts within the scope of ASME A90.1.
(d) Mobile scaffolds, towers, and platforms within the scope of ANSI A92.
(e) Powered platform and equipment for exterior and interior building maintenance within the scope of ASME A120.1.
(f) Conveyors and related equipment within the scope of ASME B20.1.
(g) Cranes, derricks, hoists, hooks, jacks, and slings within the scope of ASME B30.
(h) Industrial trucks within the scope of ASME B56.
(i) Portable equipment, except for portable escalators, which are covered by ASME A17.1 section 6.1.
(j) Tiering or piling machines used to move material to and from storage located and operating entirely within one story.
(k) Equipment for feeding or positioning material at machine tools, printing presses, and other similar equipment.
(L) Skip or furnace hoists.
(m) Wharf ramps.
(n) Amusement devices.
(o) Lift bridges.
(p) Railroad car lifts and dumpers.
(q) Mechanized parking garage equipment.
Unofficial Text (See Printed Volume). Current through date and Register shown on Title Page.

Comm 18.1002

Wisconsin Administrative Code

(t) Line jacks, false cars, shafters, moving platforms, and similar equipment used for installing an elevator.

(s) Platform elevators installed in a ship or offshore drilling rig and used for the purpose of loading and unloading cargo, equipment, and personnel.

(t) Dock levelers, such as freight platform lifts, having a travel of 12 inches (500 mm) or less.

(u) Shipboard elevators.

(v) Mine elevators.

(w) Type A material lifts.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: cr. (1) (a) to (p) and 1. to 16. and am. (1) (a) (intro.), cr. (1) (a) 17. and (1) (b) Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1003 Application. (1) NEW AND EXISTING INSTALLATIONS. (a) Code application. Except as specified in par. (b), all new and existing conveyances and alterations of existing conveyances covered by this chapter shall conform to the provisions in this chapter in effect on the contract date.

(b) Exceptions. 1. Handrails installed in elevators prior to July 1, 2002 may be removed.

2. Oil return pumps for hydraulic elevators may be removed and replaced as allowed by ASME A17.1 section 3.18.3.7. Written permission shall be obtained from the owner for the removal of the oil return pump and it shall be recorded in the maintenance record as specified in s. Comm 18.1007 (1) (b).

3. The requirements in ASME A17.1 sections 5.10, 8.1, 8.6, 8.7, 8.9, 8.10, and 8.11 apply to both new and existing installations.

4. Stage and orchestra lifts shall comply with the applicable provisions in ASME A17.1 Parts 1 to 4.

(2) DEPARTMENT AUTHORITY. The department shall have the authority to interpret the requirements in this chapter and in all adopted codes and standards.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. (1) (a) and (b) 2. Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1004 Definitions. In this chapter:

(1) “Alteration” means any change to equipment, including its parts, components, or subsystems, other than maintenance, repair, or replacement.

(2) “Approved” means acceptable to the department.

(3) “ANSI” means the American National Standards Institute.

(4) “ASME” means the American Society of Mechanical Engineers.

(5) “Building code” means chs. Comm 60 to 66, which is the Wisconsin Commercial Building Code.

Note: The Wisconsin Commercial Building Code, chs. Comm 60 to 66, adopts by reference the International Building Code® (IBC), the International Energy Conservation Code® (IECC), the International Mechanical Code® (IMC), the International Fuel Gas Code® (IFGC) and the International Existing Building Code® (IEBC). Comm 14, Fire Prevention Code, may have rules that may affect the maintenance and use of an existing building.

(6) “Conveyance” has the meaning as given in s. 101.981 (1) (c).

(c), Stats., except it does not include any of the following:

(a) A platform lift, stairway chair lift and any other similar device serving an individual dwelling unit.

(b) A personnel hoist.

(c) A material hoist.

Note: Section 101.981 (1) (c), Stats., reads: “Conveyance” means an elevator, an escalator, a dumbwaiter, a belt conveyor, a moving sidewalk, a platform lift, a personnel hoist, a material hoist and a stairway chair lift, and any other similar device, such as an automated people mover, used to elevate or move people or things, as provided in the rules of the department. “Conveyance” does not include a grain elevator a ski lift or towing device, or an amusement or thrill ride.

(7) “Department” means the department of commerce.

(8) “ Dwelling unit” has the meaning given in s. 101.61 (1).

Note: Section 101.61 (1), Stats., reads: “ Dwelling unit” means a structure or that part of a structure which is used or intended to be used as a home, residence or sleep-
Comm 18.1008 Accident reporting. If a conveyance malfunctions resulting in bodily injury requiring more than first aid treatment, the owner or owner’s agent shall do all of the following:

(1) Remove the conveyance from service immediately.
(2) Notify the department during normal business hours or notify the state division of emergency management during non−business hours. The State Division of Emergency Management can be contacted at (800) 943−0003 during non−business hours. A copy of the elevator/escalator accident report form SBD−10782 is available on the Safety and Buildings’ web site at www.commerce.wi.gov/SB.
(3) Submit an accident report to the department within 48 hours.
(4) Prohibit repairs, adjustments or removal of parts from the premises until authorized by the department.
(5) Verify the department’s investigation and inspection has been completed. The conveyance shall not be returned to service until authorized by the department.

Comm 18.1009 Appeals. (1) APPEAL OF DEPARTMENT ORDER. Pursuant to s. 101.02 (6) (e), Stats., any person who owns or operates a conveyance that is affected by an order of the department may petition the department for a hearing on the reasonableness of any order.
(2) APPEAL OF LOCAL ORDER. Pursuant to s. 101.02 (7) (b), Stats., any person affected by a local order that is in conflict with a provision of this chapter may petition the department for a hearing on the grounds that the local order is unreasonable and in conflict with the rule of the department.

Note: Section 101.02 (7), Stats., defines “local order” as any ordinance, order, rule or determination of any common council, board of alderpersons, board of trustees or the governing board of any village or city, a regulation or order of the local board of health, as defined in s. 250.01 (3), or order or direction of any official of a municipal−ity, upon any matter over which the department has jurisdiction.

Note: Section 101.02 (7), Stats., reads: “Upon receipt of such petition the department shall order a hearing thereon, to consider and determine the issues raised by such appeal, such hearing to be held in the village, city or municipality where the local order appealed from was made. Notice of the time and place of such hearing shall be given to the petitioner and such other persons as the department may find directly interested in such decision, including the clerk of the municipality or town from which such appeal comes. If upon such investigation it shall be found that the local order appealed from is unreasonable and in conflict with the order of the department, the department may modify its order and shall substitute for the local order appealed from such order as shall be reasonable and legal in the premises, and thereafter the said order shall, in such particulars, be void and of no effect.”

Comm 18.1010 Petition for variance. The department shall consider and may grant a variance to a provision in this chapter in accordance with ch. Comm 3. The petition for variance shall include, where applicable, a position statement from the fire department or local building official having jurisdiction, or both.

Note: Chapter Comm 3 requires the submittal of a petition for variance form SBD−9890 and a fee, and that an equivalency is established in the petition for variance that meets the intent of the rule being petitioned. Chapter Comm 3 also requires the department to process regular petitions within 30 business days and priority petitions within 10 business days.

Note: Copies of the petition for variance form SBD−9890 are available at no charge from the Safety and Buildings Division, P.O. Box 7162, Madison, Wisconsin 53707−7162, or telephone (608) 266−3151 and TTY (608) 264−8777, or at the Safety and Buildings’ web site at www.commerce.wi.gov/SB.

History: CR 07−089: cr. Register June 2008 No. 630, eff. 1−1−09; CR 08−030: am. (1) (b) Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1011 Penalties. Penalties for violations of this chapter shall be assessed in accordance with ss. 101.02 and 101.988, Stats.

Note: Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employee thereof, fails to observe and comply with an order of the department will constitute a separate and distinct violation of such order.

Note: Section 101.02 (13) (a), Stats., indicates penalties will be assessed against any employer, employee, owner or other person who fails or refuses to perform any duty lawfully enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with subchapter I of ch. 101, Stats. For each such violation, failure or refusal, such employee, owner or other person must forfeit and pay into the state treasury a sum not less than $10 nor more than $100 for each violation.

Note: Section 101.988 (3), Stats., reads: “Any person who violates this sub−chapter or rules promulgated under this subchapter may be fined not more than $1,500 or imprisoned for not more than 30 days or both, except that, notwithstanding s. 939.61 (1), the owner of a private residence in which a conveyance is located may not be fined or required to pay a forfeiture to this state as a result of any violation involving that conveyance.

History: CR 07−089: cr. Register June 2008 No. 630, eff. 1−1−09.

Subchapter III — Plan Review and Inspection

Comm 18.1013 Plan review. (1) GENERAL REQUIREMENTS. An elevator contractor shall submit plans and permit applications for the installation of any new or altered conveyance to the department or agent municipality for approval. No work shall commence before the plans and permit application are approved by the department or agent municipality. The approval letter issued by the department or agent municipality shall be posted prior to construction at or near the equipment space at the construction site and shall remain posted until the final inspection determines compliance with the code. The approval letter shall be considered the permit specified under s. 101.983 (1) (a), Stats.

Note: Section 101.983 (1) (a), Stats., reads: “No person may construct, install, or alter a conveyance in this state unless an elevator contractor licensed by the department under s. 101.983 (1) has received a permit for the construction, installation, or alteration of the conveyance from the department.”

(2) NEW INSTALLATIONS. (a) Number of plans. An elevator contractor shall submit all of the following to the department or agent municipality for plan review and approval for the proposed installation of any conveyance:

1. At least 3 copies of bound equipment layout plans and specifications.
2. At least 3 copies of the permit application.
(b) Information on equipment plans or specifications. Information on equipment plans or specifications shall conform to the applicable sections in ASME A17.1 and ASME A18.1 and include all of the following:

1. A plan of the car, hoistway and machine room, control room or control space showing all clearances, including all inside car or platform dimensions specified in this chapter and the building code.

2. A cross-section drawing through the hoistway, pit, car and machine room, control room or control space that shows all applicable dimensions. Landings shall be shown, indicating types of hoistway doors or gates.

3. A complete dimensioned layout of the machine room, control room or control space showing working clearances around machine, controller and disconnecting means.

4. The size and weight per foot of guiderails and details of their support, including reinforcements where required.

5. Sufficient data and information to determine if the conveyance and machine room, control room or control space comply with the requirements of this chapter.

6. For conveyances serving public buildings and places of employment, at least one copy of the equipment plans and specifications containing the original shop drawing stamp of the supervising building designer.

(c) Evidence of plan approval. Evidence of building plan approval, where applicable, shall be included with the elevator, escalator or lift device plan submittal.

(3) Alterations. (a) Equipment plans and application required. 1. A department permit—application form SBD−22 and at least 3 copies of equipment plans and specifications complying with sub. (2) shall be submitted for examination and approval to the department or agent municipality for the proposed alteration of conveyances as specified in Tables Comm 18.1013−1 to 18.1013−3.

2. Evidence of building plan approval, where applicable, shall be included with the conveyance plan submittal.

### Table Comm 18.1013−1
Alterations to Elevators
Submittal of Plans and Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Electric Elevators</td>
</tr>
<tr>
<td>1.</td>
<td>Relocation of machine room or machinery spaces, or changes in machine room or machinery layout</td>
<td>ASME A17.1−8.7.2.7</td>
</tr>
<tr>
<td>2.</td>
<td>Addition of hoistway doors or gates</td>
<td>ASME A17.1−8.7.2.10</td>
</tr>
<tr>
<td>3.</td>
<td>Increase in deadweight plus rated load is more than 5%</td>
<td>ASME A17.1−8.7.2.15.2</td>
</tr>
<tr>
<td>4.</td>
<td>Decrease in deadweight plus rated load is more than 5%</td>
<td>ASME A17.1−8.7.2.15.2</td>
</tr>
<tr>
<td>5.</td>
<td>Change in classification</td>
<td>ASME A17.1−8.7.2.16</td>
</tr>
<tr>
<td>6.</td>
<td>Increase or decrease in rated load</td>
<td>ASME A17.1−8.7.2.16.4</td>
</tr>
<tr>
<td>7.</td>
<td>Increase or decrease in travel</td>
<td>ASME A17.1−8.7.2.17.1</td>
</tr>
<tr>
<td>8.</td>
<td>Increase in rated speed</td>
<td>ASME A17.1−8.7.2.17.2</td>
</tr>
<tr>
<td>9.</td>
<td>Decrease in rated speed</td>
<td>ASME A17.1−8.7.2.17.3</td>
</tr>
<tr>
<td>10.</td>
<td>Installation of a device to prevent unintended movement or ascending car overspeed</td>
<td>ASME A17.1−8.7.2.20</td>
</tr>
<tr>
<td>11.</td>
<td>Alterations to guide rails</td>
<td>ASME A17.1−8.7.2.24</td>
</tr>
<tr>
<td>12.</td>
<td>Replacement of drive machines</td>
<td>ASME A17.1−8.7.2.25.1</td>
</tr>
<tr>
<td>13.</td>
<td>Change in location of drive machine</td>
<td>ASME A17.1−8.7.2.25.2</td>
</tr>
<tr>
<td>14.</td>
<td>Installation of controllers</td>
<td>ASME A17.1−8.7.2.27.4</td>
</tr>
</tbody>
</table>

### Table Comm 18.1013−2
Alterations to Escalators and Moving Walks
Submittal of Plans and Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Escalator</td>
</tr>
<tr>
<td>1.</td>
<td>Relocation of escalator or moving walk</td>
<td>ASME A17.1−8.7.6.1.2</td>
</tr>
<tr>
<td>2.</td>
<td>Alteration to floor openings</td>
<td>ASME A17.1−8.7.6.1.3</td>
</tr>
<tr>
<td>3.</td>
<td>Alteration to trusses and machinery spaces</td>
<td>ASME A17.1−8.7.6.1.4</td>
</tr>
<tr>
<td>4.</td>
<td>Change to angle of inclination or geometry</td>
<td>ASME A17.1−8.7.6.1.5 (a) and (b)</td>
</tr>
<tr>
<td>5.</td>
<td>Alteration to balustrades</td>
<td>ASME A17.1−8.7.6.1.5 (c)</td>
</tr>
<tr>
<td>6.</td>
<td>Alteration to combplates</td>
<td>ASME A17.1−8.7.6.1.8</td>
</tr>
<tr>
<td>7.</td>
<td>Alteration to trusses and girders</td>
<td>ASME A17.1−8.7.6.1.9</td>
</tr>
<tr>
<td>8.</td>
<td>Alteration to track system</td>
<td>ASME A17.1−8.7.6.1.10</td>
</tr>
</tbody>
</table>
### Table Comm 18.1013–3
Alteration to Dumbwaiters and Material Lifts
Submital of Plans and Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Conversion of dumbwaiter or material lift to an elevator</td>
<td>ASME A17.1–8.7.7.3.3</td>
</tr>
</tbody>
</table>

(b) **Application required.** At least 3 copies of a completed department permit application form SBD–22 shall be submitted to the department or agent municipality for examination and approval for the alterations, repairs and replacements specified in Tables Comm 18.1013–4 to 18.1013–7:

### Table Comm 18.1013–4
Repairs, Replacements and Alterations to Elevators
Submital of Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Repair of speed governor</td>
<td>ASME A17.1–8.6.2.3, ASME A17.1–8.6.2.23</td>
</tr>
<tr>
<td>2.</td>
<td>Repair of releasing carrier</td>
<td>ASME A17.1–8.6.2.4, ASME A17.1–8.6.2.4</td>
</tr>
<tr>
<td>3.</td>
<td>Replacement of speed governor</td>
<td>ASME A17.1–8.6.3.6, ASME A17.1–8.6.3.6</td>
</tr>
<tr>
<td>4.</td>
<td>Replacement of valves, pressure piping</td>
<td>NA, ASME A17.1–8.7.3.24</td>
</tr>
<tr>
<td>5.</td>
<td>Replacement of hoistway doors</td>
<td>ASME A17.1–8.7.2.10.1 and ASME A17.1–8.7.2.11.2, ASME A17.1–8.7.3.10</td>
</tr>
<tr>
<td>6.</td>
<td>Alteration to valves, pressure piping</td>
<td>NA, ASME A17.1–8.7.3.24</td>
</tr>
<tr>
<td>7.</td>
<td>Addition or alteration to door opening devices</td>
<td>ASME A17.1–8.7.2.11.6 (e), ASME A17.1–8.7.2.11.6 (e), ASME A17.1–8.7.3.10 and ICC/ANSI A117.1–407.2.5</td>
</tr>
<tr>
<td>8.</td>
<td>Installation of fire sprinkler in machine or control room or space or at top of hoistway</td>
<td>ASME A17.1–8.7.2.8, ASME A17.1–8.7.3.8</td>
</tr>
<tr>
<td>9.</td>
<td>Alteration of speed governor</td>
<td>ASME A17.1–8.7.2.12, ASME A17.1–8.7.3.16</td>
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<td>10.</td>
<td>Alteration to hoistway doors</td>
<td>ASME A17.1–8.7.2.10.1 and ASME A17.1–8.7.2.11.2, ASME A17.1–8.7.3.10</td>
</tr>
<tr>
<td>11.</td>
<td>Addition of hoistway door–locking devices</td>
<td>ASME A17.1–8.7.2.11.1 and ASME A17.1–8.7.2.11.2, ASME A17.1–8.7.3.11</td>
</tr>
<tr>
<td>12.</td>
<td>Alteration or addition of power operation of car or hoistway doors</td>
<td>ASME A17.1–8.7.2.12, ASME A17.1–8.7.3.12</td>
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<td>13.</td>
<td>Installation of new safeties</td>
<td>ASME A17.1–8.7.2.18, ASME A17.1–8.7.3.15</td>
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<td>14.</td>
<td>Change in size or type of suspension ropes</td>
<td>ASME A17.1–8.7.2.21.1, ASME A17.1–8.7.3.25</td>
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<td>15.</td>
<td>Alteration to oil buffers</td>
<td>ASME A17.1–8.7.2.23, ASME A17.1–8.7.3.27</td>
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<td>16.</td>
<td>Alteration to drive machine brakes</td>
<td>ASME A17.1–8.7.2.25.1, NA</td>
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<td>17.</td>
<td>Alteration to terminal stopping device</td>
<td>ASME A17.1–8.7.2.26, ASME A17.1–8.7.3.30</td>
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<td>18.</td>
<td>Addition of top–of–car operating devices</td>
<td>ASME A17.1–8.7.2.27.1, ASME A17.1–8.7.3.31.1</td>
</tr>
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<td>19.</td>
<td>Change in type of control</td>
<td>ASME A17.1–8.7.2.27.5, ASME A17.1–8.7.3.31.6</td>
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<td>20.</td>
<td>Change in type of operation</td>
<td>ASME A17.1–8.7.2.27.6, ASME A17.1–8.7.3.31.7</td>
</tr>
<tr>
<td>21.</td>
<td>Alteration to emergency or standby power system</td>
<td>ASME A17.1–8.7.2.28, ASME A17.1–8.7.3.31.8 (b)</td>
</tr>
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<td>22.</td>
<td>Alteration to firefighters’ emergency operation</td>
<td>ASME A17.1–8.7.2.28, ASME A17.1–8.7.3.31.8 (c)</td>
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<tr>
<td>23.</td>
<td>Alteration to or replacement of a plunger or cylinder</td>
<td>NA, ASME A17.1–8.7.3.23.1–8.7.3.23.3</td>
</tr>
<tr>
<td>24.</td>
<td>Increase in working pressure</td>
<td>NA, ASME A17.1–8.7.3.23.4</td>
</tr>
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<td>25.</td>
<td>Alteration to or installing auxiliary power lowering</td>
<td>NA, ASME A17.1–8.7.3.31.9</td>
</tr>
</tbody>
</table>
Table Comm 18.1013–5
Alterations to Escalators and Moving walks
Submittal of Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>Escalator</th>
<th>Moving Walks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Alteration to handrails</td>
<td>ASME A17.1–8.7.6.1.6</td>
<td>ASME A17.1–8.7.6.2.6</td>
</tr>
<tr>
<td>2.</td>
<td>Alteration to step system or treadway system</td>
<td>ASME A17.1–8.7.6.1.7</td>
<td>ASME A17.1–8.7.6.2.7</td>
</tr>
<tr>
<td>3.</td>
<td>Alteration to trusses and girders</td>
<td>ASME A17.1–8.7.6.1.9</td>
<td>ASME A17.1–8.7.6.2.9</td>
</tr>
<tr>
<td>4.</td>
<td>Increase of rated load or speed</td>
<td>ASME A17.1–8.7.6.1.11</td>
<td>ASME A17.1–8.7.6.2.11</td>
</tr>
<tr>
<td>5.</td>
<td>Alteration to driving machine, motor and brake</td>
<td>ASME A17.1–8.7.6.1.12</td>
<td>ASME A17.1–8.7.6.2.12</td>
</tr>
<tr>
<td>6.</td>
<td>Alteration or addition of operating and safety devices</td>
<td>ASME A17.1–8.7.6.1.13</td>
<td>ASME A17.1–8.7.6.2.13</td>
</tr>
<tr>
<td>7.</td>
<td>Alteration to or addition of lighting access and electrical work</td>
<td>ASME A17.1–8.7.6.1.14</td>
<td>ASME A17.1–8.7.6.2.14</td>
</tr>
</tbody>
</table>

Table Comm 18.1013–6
Alterations to Dumbwaiters and Material Lifts
Submittal of Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Increase in rated load</td>
<td>ASME A17.1–8.7.7.1.2</td>
</tr>
</tbody>
</table>

Table Comm 18.1013–7
Alterations to Platform Lifts
Submittal of Application Required

<table>
<thead>
<tr>
<th>Item</th>
<th>Type of Alteration</th>
<th>General Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Alteration to safeties or speed governors</td>
<td>ASME A18.1–2.8</td>
</tr>
<tr>
<td>2.</td>
<td>Alteration to plungers</td>
<td>ASME A18.1–8.1.3</td>
</tr>
<tr>
<td>3.</td>
<td>Alteration to cylinders</td>
<td>ASME A18.1–8.1.4</td>
</tr>
<tr>
<td>4.</td>
<td>Alteration to or addition of machine room</td>
<td>Comm 18.1802 (1) (a)</td>
</tr>
<tr>
<td>5.</td>
<td>Alteration to hydraulic valves</td>
<td>Comm 18.1808 (1), (2), (3) and (6)</td>
</tr>
</tbody>
</table>

Note: “NA” in Tables Comm 18.1013–1 and Comm 18.1031–7 means “Not applicable”.
Note: See Comm 2.15 for fee requirements.
Note: Copies of the permit application form SBD–22 are available at no charge from the Safety and Buildings Division, P.O. Box 7162, Madison, Wisconsin 53707–7162, or telephone (608) 266–3151 and TTY (608) 264–8777, or at the Safety and Buildings’ web site at www.commerce.wi.gov/SB.

(4) PLAN REVIEW ACTIONS. (a) Review of plans. All approvals of permit application and plans for installation, repair, replacement, or alteration shall be performed by the department or by agent municipalities.

(b) Conditional approval. If, upon examination, the department or agent municipality determines that the permit application and plans for installation, repair, replacement, or alteration substantially comply with the provisions of this chapter, a conditional approval, in writing, shall be granted. All noncode-complying conditions stated in the conditional approval shall be corrected before or during installation. A conditional approval issued by the department or agent municipality shall not be construed as an assumption of any responsibility for the design or construction of the equipment.

(c) Revocation of approval. The department or agent municipality may revoke any approval, issued under this chapter if the department or agent municipality determines any of the following:

1. That information provided by the person obtaining the approval contains false statements or misinterpretations of material fact.

2. That the approval was issued in error.

3. That the work performed is not consistent with the approval or is in violation with this chapter.

(d) Denial of approval. If the department or agent municipality determines that the plans or the permit application do not substantially comply with the provisions of this chapter, the permit application for conditional approval shall be denied, in writing.

(e) Processing time. Pursuant to s. Comm 2.07 (3), the department or agent municipality shall review and make a determination on a permit application for approval of an installation or an alteration within 15 business days.

(f) Expiration. An approval issued under this chapter expires under any of the following circumstances:

1. If the work authorized under the approval is not commenced within 6 months after the date on which the approval is issued.

2. If the work authorized under the approval is suspended or abandoned for 60 consecutive days at any time following the commencement of the work.
Comm 18.1014 Permit to operate. (1) ISSUANCE. No owner may use or operate a conveyance until an acceptance inspection, periodic inspection, or test of equipment covered by this chapter is performed and the installation is found to be in compliance with the provisions of this chapter. The department or agent municipality shall issue a permit to operate within 10 business days from receipt of an inspection report showing compliance with the provisions of this chapter.

(2) DISPLAY. The owner of a conveyance shall display the permit to operate applicable to the conveyance on or in the conveyance, or, if applicable, in the machinery room or space.

(3) TERM. A permit to operate issued under this section shall expire one year from the date of issuance.

(4) RENEWAL. (a) Prior to the expiration of the permit to operate as specified in sub. (3), an owner shall renew the permit to operate by scheduling a periodic inspection with the department, agent municipality or an independent licensed elevator inspector.

(b) Upon performing the inspection, the department shall give the owner notice of the conveyance safety deficiencies and shall instruct the owner as to the procedure for obtaining periodic inspections and renewing the permit under which the lift or equipment is operated.

(5) REVOCATION. The department or agent municipality may revoke a permit to operate if the equipment is found to be in non-compliance with the applicable safety standard. Upon revocation of the permit to operate, the department or agent municipality shall notify the owner in writing of the non-complying items and afford the owner the opportunity for a hearing within 30 days after the date of revocation.

History:
CR 07−089: cr. Register June 2008 No. 630, eff. 1−1−09; CR 08−030: am. (1), (2) (a) (intro.), (b) (intro.), 1 to 3., 5., 6., (3) (a) 1., 2., Tables 1, 4 and 7 Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1015 Inspection responsibilities. (1) GENERAL. (a) Licensing. All inspections of conveyances required by this chapter shall be conducted by persons who are licensed in accordance with s. Comm 5.64.

(b) Inspection report. Licensed elevator inspectors shall prepare an inspection report that identifies items of noncompliance. Items listed on the inspection report as being out of compliance with this chapter shall be corrected on or before the compliance date stated on the report.

(2) INSPECTOR PROCEDURES. (a) Independent licensed elevator inspector procedures. Licensed elevator inspectors providing independent inspection services shall comply with the all of the following procedures:

1. A licensed elevator inspector shall submit written verification to the department of an agreement between the owner and the licensed inspector for inspection services no later than 30 calendar days after inspection service on equipment covered by this chapter is started. When an owner discontinues licensed elevator inspection services, the licensed elevator inspector shall notify the department not more than 30 days from the date of cancellation.

2. A licensed elevator inspector shall file an inspection report with the department, on a form approved by the department, within 10 business days after the inspection.

3. If a licensed elevator inspector does not file a periodic inspection report with the department within 30 calendar days from the expiration date of the permit to operate, the department may conduct the inspection. If the department conducts the inspection, the owner will be charged a fee in accordance with s. Comm 2.15 for each inspection.

4. If a licensed elevator inspector is unable to obtain compliance with this chapter, the inspector shall notify the department.

If the department conducts the inspection, the owner will be charged a fee in accordance with s. Comm 2.15 for each inspection.

(b) Department inspection procedures. 1. The department shall be notified at least 7 days from when work that is covered by s. Comm 18.1013 is complete and ready for an inspection to be scheduled.

2. a. If the equipment is not complete and ready at the time of the scheduled inspection, the inspection will not be made and a cancellation fee will be assessed in accordance with ch. Comm 2, and a reinspection will be scheduled.

b. Unless the inspector receives in writing a cancellation of a scheduled inspection at least 7 days prior to the scheduled inspection date, a fee as specified in ch. Comm 2 will be assessed for the cancellation.

3. Equipment found to be in noncompliance may be reinspected as determined by the inspector to obtain compliance with the provisions of this chapter.

(c) Agent municipalities. Licensed elevator inspectors providing inspection services for an agent municipality shall comply with subch. IV.

(3) REGISTRATION NUMBERS. All new conveyances as specified in s. Comm 18.1002 (1), shall be assigned a registration number by the department or agent municipality. The registration number shall be located in an area that is readily visible to inspectors.

(4) TYPES OF INSPECTIONS OR TESTS. (a) Acceptance inspections and tests. The department or agent municipality shall conduct acceptance inspections and tests as specified in ASME A17.1 section 8.10, and ASME A18.1 section 10.1.3.

(b) Periodic or routine inspections. A licensed elevator inspector shall conduct periodic or routine inspections as specified in ASME A17.1 section 8.11 and ASME A18.1 sections 10.2 and 10.3.

(c) Periodic tests. 1. Periodic tests as specified in ASME A17.1 section 8.11 and ASME A18.1 section 10.3 shall be conducted by persons licensed or registered as specified in s. Comm 5.991.

2. Reports containing complete information shall be submitted to the department or agent municipality for any of the following tests:

a. Category 1 for tests on hydraulic elevators shall use department form SBD−3.

b. Category 1 for tests on escalators shall use department form SBD−6.

c. Category 5 for tests on safeties or governors shall use department form SBD−2E.

All other category 5 tests shall use department form SBD−10872/Cat5−E.

Note: Copies of the forms SBD−2E, SBD−3, SBD−6 and SBD−10872/Cat5−E are available at no charge from the Safety and Buildings Division, P.O. Box 2509, Madison, Wisconsin 53707, or telephone (608) 267−9706, or at the Safety and Buildings web site at www.commerce.wi.gov/SB.

History:
CR 07−089: cr. Register June 2008 No. 630, eff. 1−1−09; CR 08−030: am. (1), (6), (b) (title), (2) (c), (3), (4) (a) and (b), r. and recre. (4) (c) Register December 2008 No. 636, eff. 1−1−09.

Subchapter IV — Agent Municipalities

Comm 18.1016 Agent municipalities. (1) DESIGNATION. The department may designate to an agent municipality the authority to review and approve elevator, escalator or lift device plans and specifications, conduct inspections and issue permits to operate for those types of installations to be located within the municipality’s boundary limits and which require approval under this chapter.

(2) CONDITIONS OF AGENT DESIGNATION. (a) Agent municipalities shall comply with all of the following:

1. Employ licensed elevator inspectors to perform plan review and inspection functions.
2. Forward to the department any information requested by the department relative to the examination of plans and inspections of elevators, escalators or lift devices.

3. Notify the department, in writing, at least 30 days prior to the date upon which the agent municipality intends to relinquish the plan examination and inspection responsibilities for equipment covered under this chapter.

(b) The primary duties of the licensed elevator inspectors shall include elevator, escalator and lift devices plan review and inspections.

(c) An agent municipality may waive its jurisdiction for plan review and approval for any project, in which case plans shall be submitted to the department for review and approval.

(d) Agent municipalities may set by ordinance the fees for plan review services.

Subchapter V — Changes, Additions or Omissions to ASME A17.1

Comm 18.1700 Changes, additions or omissions to ASME A17.1. Changes, additions or omissions to the ASME A17.1 are specified in this subchapter are rules of the department and are not requirements of the ASME A17.1.

Note: The sections in this chapter are generally numbered to correspond with the section numbering in the ASME A17.1. e.g. Comm 18.1002 corresponds to ASME A17.1 Part 2.

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4–1–04.

Comm 18.1701 Scope and application. (1) SCOPE. The requirements in ASME A17.1 section 1.1 are not included as part of this chapter.

Note: See ss. Comm 18.1001 to 18.1003 for purpose, scope and application requirements.

Note: See ASME A18.1 and subch. VI for requirements relating to vertical and inclined platform lifts, and stairway chairlifts serving public buildings and places of employment.

(2) PURPOSE AND EXCEPTIONS. The requirements in ASME A17.1 section 1.2 are not included as part of this chapter.

Note: See ss. Comm 18.1001 to 18.1003 for purpose, scope and application requirements.

(3) DEFINITIONS. Substitute the following definitions for the corresponding definitions listed in ASME A17.1 section 1.3:

(a) “Approved” has the meaning specified in s. Comm 18.1004 (2).

(b) “Authority having jurisdiction” means the department.

(c) “Building code” has the meaning specified in s. Comm 18.1004 (5).

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4–1–04.

Comm 18.1702 Electric elevators. (1) SUMP PUMPS. (a) This is a department exception to the requirements in ASME A17.1 section 2.2.2.3: An elevator pit is exempt from the sump or drain requirement for any of the following situations:

1. The floor of an elevator walk—ins pit is level with the adjacent floor.

2. The elevator does not extend to the building’s lowest floor level and the pit floor is not in contact with the earth.

3. The pit floor is above adjacent grade where the elevator hoistway shaft has one or more exterior walls.

(b) Substitute the following wording for the requirements in ASME A17.1 section 2.2.2.5: Except as provided in par. (a), in an elevator provided with firefighters’ Emergency Operation, one or more sump pumps or drains shall be provided. The aggregate capacity for drainage from the pit shall be one of the following:

1. 30 gpm in a hoistway with one elevator.

2. 50 gpm in a hoistway with two or three elevators.

3. 80 gpm in a hoistway with four elevators.

Note: See s. Comm 82.36 for the width or diameter and depth of a sump pump located in an elevator pit.

(c) This is a department informational note to be used under ASME A17.1 section 2.7.2.1:

Note: See s. Comm 82.33 for prohibition of sumps and sump pumps in elevator machine rooms.

(2) MACHINE ROOMS AND MACHINERY SPACES. (a) Access to machine rooms and machinery spaces. These are department rules in addition to the requirements in ASME A17.1 section 2.7.3.1:

1. Access to the machine room or penthouse for elevators shall not be through any toilet room, sleeping room or private room or space.

2. Access to other spaces in a building or facility shall not pass through the machine room.

(b) Access doors and openings. 1. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.1: The entrance to the machine room and control rooms shall be identified with a permanent sign. The lettering on the sign shall be at least one-inch high and state “elevator machine room”, or equivalent wording.

2. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.3: Hoistway access doors shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(c) Temperature and humidity. This is a department informational note to be used under ASME A17.1 section 2.7.9.2.

Note: See the building code for requirements prohibiting the transfer of contaminated air.

(3) GUARDING OF EQUIPMENT. This is a department rule in addition to the requirements in ASME A17.1 section 2.10.1: The openings in machinery room floors, through which cables pass, shall be fitted with suitable guards to prevent any loose material from coming in contact with the cables, and to prevent any loose parts from dropping through the openings. The guards shall be at least 2 inches high and shall be securely attached to the floor.

(4) HOISTWAY DOOR UNLOCKING DEVICES. This is a department rule in addition to the requirements in ASME A17.1 section 2.12.6.2: The unlocking device operating key shall be located adjacent to the elevator disconnecting means located in the machine room. The key shall be identified and the following instructions shall be posted: “Place the disconnecting means in the off position and lock it, prior to using the hoistway door unlocking key.”

(5) CAPACITY AND LOADING. This is a department informational note to be used under ASME A17.1 section 2.16.1.1:

Note: See ch. Comm 62 of the building code for stretcher-sized elevator requirements.

(6) MARKING PLATES FOR SAFETIES. This is a department rule in addition to the requirements in ASME A17.1 section 2.17.14: The manufacturer’s model number shall also be marked on the metal plate.

(7) MARKING PLATES FOR SPEED-GOVERNORS. This is a department rule in addition to the requirements in ASME A17.1 section 2.18.9: The manufacturer’s model number shall also be marked on the metal plate.

(8) OPERATING DEVICES AND CONTROL EQUIPMENT. This is a department rule in addition to the requirements in ASME A17.1 section 2.26.4.1: All electrical equipment and wiring shall comply with ch. Comm 16, Electrical Code.

(9) EMERGENCY OPERATION AND SIGNALING DEVICES. (a) Emergency or standby power system. This is a department informational note to be used under ASME A17.1 section 2.27.2:

Note: Standby power requirements for elevators in healthcare facilities are found in the National Electrical Code, Article 517 as adopted under ch. Comm 16. In other types of buildings stand−by power requirements are found in the building code under IRC chapter 62.

(b) Phase I emergency recall operation by fire alarm initiating device. 1. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.1 (a): At each elevator lobby served by the elevator.
2. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.3 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1 at any elevator lobby, other than at the designated level, shall cause all elevators that serve that lobby, and any associated elevator of a group automatic operation, to be returned nonstop to the designated level.

3. Substitute the following wording for the requirements in ASME A17.1 section 2.27.3.2.4 (a): The activation of a fire alarm initiating device specified in ASME A17.1 section 2.27.3.2.1 (a) that is located at the designated level, shall cause all elevators serving that lobby to be recalled to an alternate level, unless Phase I emergency recall is in effect.

4. Substitute the following wording for the requirements in ASME A17.1 section 2.27.4.2 (first paragraph): Fire alarm initiating devices shall be installed at each elevator lobby served by the elevator, and in the associated machine room, control space, or control room, and elevator hoistway, in compliance with the requirements in NFPA 72.

(c) Switch keys. This is a department rule in addition to the requirements in ASME A17.1 section 2.27.8: An additional set of switch keys and elevator machine room access keys for use by the fire department, police department, or other authorized personnel shall be kept in a metal box mounted in a conspicuous location adjacent to the main elevator entrances at the designated floor or other approved location. The box shall have a lock-type cover, which can be opened by the fire department, police department, or other authorized personnel.

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04; CR 08-030: am. (2) (c) (intro.), r. (5), remn. (4) to (8) and (10) (b) to be (3) to (7) and (10) (c), cr. (8) and (10) (b) Register December 2008 No. 636, eff. 1-1-09; EnrR0901: emerg. r. (8), eff. 2-5-09; CR 09-012: r. (8), remn. (9) and (10) to be (8) and (9) and Register June 2009 No. 642, eff. 7-1-09; CR 10-064: r. and recr. (1) Register December 2010 No. 660, eff. 1-1-11.

Comm 18.1703 Hydraulic elevators. (1) REFUGE SPACE ON TOP OF CAR ENCLOSURE. This is a department rule in addition to the requirements in ASME A17.1 section 3.4.7: Refuge space on top of a car enclosure shall be identified in accordance with ASME A17.1 section 2.4.12.2.

(2) CYLINDERS BELOW GROUND. These are department rules in addition to the requirements in ASME A17.1 section 3.18.3.8.3:

(a) The material protecting the cylinder shall withstand the installation process.

(b) The requirements in ASME A17.1 section 3.18.3.8.3 (c) may not be used as a single means of protection.

(3) ANTI-CREEP OPERATION. Substitute the following wording for the requirements in ASME A17.1 section 3.26.3.1.2: The anti-creep device shall maintain the car within 1/2 inch of the landing irrespective of the position of the hoistway door.

Note: See ss. Comm 18.1005 (1) and (2) for application of cross-references within the adopted standards.

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

Comm 18.1705 Special application elevators. (1) LIMITED-USE/LIMITED-APPLICATION ELEVATORS. This is a department rule in addition to the requirements in ASME A17.1 section 5.2.1.8: Where sprinklers are installed in an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with ASME A17.1 sections 2.27.3.1 and 2.27.3.2 for emergency recall for electric elevators, or ASME A17.1 sections 3.27.1, 3.27.2 and 3.27.3 for emergency recall for hydraulic elevators shall comply with ASME A17.1 section 2.27.8 and s. Comm 18.1702 (9) (c) for switch keys.

(2) PRIVATE RESIDENCE ELEVATORS. (a) Except as specified in par. (b), the requirements in ASME A17.1 section 5.3 shall apply to private residence elevators serving dwelling units.

(b) Private residence elevators installed in public buildings or places of employment prior to July 1, 2002 shall comply with ASME A17.1 section 5.3 as applicable to any repair, replacement or alteration of the installed equipment.

(c) This is a department rule in addition to the requirements of ASME A17.1 section 5.3: Machinery spaces, machine rooms, control spaces and control rooms where provided shall conform to ASME A17.1 section 5.2.1.7.

(d) This is a department rule in addition to the requirements of ASME A17.1 section 5.3.1.8.1:

1. Except as specified in subd. 2., the top of the car enclosure shall comply with the load requirements specified under ASME A17.1 section 2.14.1.6.

2. A car enclosure shall be permitted to have a top that is non-load bearing provided the top of the car enclosure is marked to indicate it cannot sustain a load.

(3) SHIPBOARD ELEVATORS. The requirements in ASME A17.1 section 5.8 are not included as part of this chapter.

(4) MINE ELEVATORS. The requirements in ASME A17.1 section 5.8 are not included as part of this chapter.

(5) ELEVATORS USED FOR CONSTRUCTION. This is a department rule in addition to the requirements in ASME A17.1 section 5.10.1.21.2: All elevators shall have assigned operator while in use.

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04; CR 08-030: am. (1), r. and recr. (2), r. (5), remn. (4) to (6) to be (3) to (5) Register December 2008 No. 636, eff. 1-1-09; correction in (1) made under s. 13.92 (4) (b) 7., Stats., Register June 2009 No. 642.

Comm 18.1707 Dumbwaiter and Type B material lifts. (1) POWER AND HAND DUMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES. Substitute the following wording for the requirements in ASME A17.1 Part 7, Scope: This part applies to power dumbwaiters and Type B material lifts.

(2) HOISTWAY–ACCESS DOORS. This is a department rule in addition to the requirements in ASME A17.1 section 7.1.11.5: Hoistway access door panels for power dumbwaiters shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(3) HOISTWAY-DOOR VISION PANELS. Substitute the following wording for the requirements in ASME A17.1 section 7.1.11.8: Vision panels shall be provided in hoistway doors where position indicators are not provided. Vision panels shall comply with ASME A17.1 sections 2.11.7.1.2, 2.11.7.1.3, 2.11.7.1.4 and 2.11.7.1.6, and the total area of one or more vision panels in any hoistway door shall not be less than 4 in.² and not more than 25 in.².

Note: See ICC/ANSI A117.1 section 404.2.10 for vision panels in doors.

History: CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

Comm 18.1708 General requirements. (1) SECURITY. This is a department rule in addition to the requirements in ASME A17.1 section 8.1: Key access as specified in this section will not be verified by the department.

(2) MAINTENANCE, REPAIR AND REPLACEMENT. (a) Application of ASME A17.1 section 8.6. Substitute the following wording for the requirements in ASME A17.1 section 8.6 (intro. par.): ASME A17.1 sections 8.6.1 to 8.6.11 and ASME A17.1 sections 8.6.12.1, 8.6.12.3.1.3 and 8.6.12.4.1.2 apply to maintenance, repairs and replacements.

(b) General requirements. 1. Substitute the following wording for the requirements in ASME A17.1 section 8.6.1.4.2: The owner or owner’s agent shall retain the maintenance records as specified in ASME A17.1 section 8.6.1.4.1 and keep these records at the building site. Any electronic format records of maintenance performed on conveyances shall be transferred to the paper copy of the maintenance record within 3 months of the initial recording of maintenance. Maintenance records are the property of the owner and shall be readily available upon request from elevator personnel.
2. Substitute the following wording for the requirements in ASME A17.1 section 8.6.1.6.5: Class "ABC" fire extinguishers shall be provided in, or adjacent to, elevator electrical machine rooms, control rooms and control spaces outside the hoistway intended for full bodily entry, and walk-in machinery and control rooms for escalators and moving walks; and they shall be located convenient to the access door.

(c) Maintenance of hydraulic elevators. 1. This is a department rule in addition to the requirements in ASME A17.1 section 8.6.5.7: An owner shall maintain a written record of oil level and usage on a quarterly basis.

2. Substitute the following wording for the requirements in ASME A17.1 section 8.6.5.8: Elevators installed prior to January 1, 1994 and that have below ground hydraulic cylinders shall be tested in accordance with ASME A17.1 sections 8.11.3.2.1 and 8.11.3.2.2. If these annual tests indicate the cylinder or piping below ground is leaking oil, the hydraulic cylinder or piping shall be replaced.

(d) Special provisions. This is a department rule in addition to the requirements in ASME A17.1 sections 8.6.11.3 to 8.6.11.8: Written procedures as specified in these sections will not be evaluated by the department.

(3) ALTERATIONS. (a) Alterations to electric elevators. 1. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.8: Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with ASME A17.1 sections 2.27.3 to 2.27.8 for emergency recall and emergency in-car operation.

2. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.17.1: When an alteration involves an increase in rise and the altered elevator meets ASME A17.1 section 2.27.3 (a), the applicable requirements of ASME A17.1 section 2.27.3.1 to 2.27.8 shall be provided.

3. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.28: When emergency recall and emergency in-car operations are installed, the operations shall conform to the requirements of ASME A17.1 section 2.27.3.

4. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.22.1: When an alteration involves an increase in rise and the altered elevator meets ASME A17.1 section 2.27.3 (a), the applicable requirements of ASME A17.1 section 2.27.3.1 to 2.27.8 shall be provided.

(b) Alterations to hydraulic elevators. 1. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.3: Where a reopening device for power operated car doors or gates is altered, replaced or added, ASME A17.1 section 8.7.2.13 shall apply.

2. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.3.8: Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with ASME A17.1 section 2.27.3 to 2.27.8 for emergency recall and emergency in-car operation.

3. This is a department rule in addition to the requirements in ASME A17.1 section 8.7.3.18: When emergency recall and emergency in-car operations are installed, the operations shall conform to the requirements of ASME A17.1 section 3.27.

(4) CODE DATA PLATE. Substitute the following wording for the requirements in ASME A17.1 section 8.9 introductory paragraph: ASME A17.1 section 8.9 contains requirements for all new equipment within the scope of this chapter.

(5) ACCEPTANCE INSPECTIONS AND TESTS, GENERAL REQUIREMENTS. Substitute the following wording for the requirements in ASME A17.1 sections 8.10.1.1.1 and 8.10.1.1.3:

(a) Persons authorized to make acceptance inspections and tests. Licensed elevator inspectors performing acceptance inspections for new or altered installations shall comply with s. Comm 18.1015 (1), (2) (b) and (c) and (4) (a).

(b) Persons installing or altering equipment. This is a department rule in addition to the requirements in ASME A18.1 section 8.10.1.1.2: The installation shall not be placed in service until authorized by the department or agent municipality.

(6) PERIODIC INSPECTIONS AND TESTS. (a) Persons authorized to make periodic inspections and tests. Substitute the following wording for the requirements in ASME A17.1 sections 8.11.1.1, 8.11.1.1.1 and 8.11.1.1.2: Licensed elevator inspectors performing periodic inspections and test shall comply with s. Comm 18.1015 (1), (2) (a) and (4) (b) and (c).

(b) Periodic inspection and test frequency. Substitute the following wording for the requirements in ASME A17.1 section 8.11.1.3: 1. Periodic inspections shall be made at intervals not longer than one year.

2. Category 1 periodic tests shall be made at intervals not longer than one year.

3. Category 3 periodic tests shall be made at intervals not longer than 3 years.

4. Category 5 periodic tests shall be made at intervals not longer than 5 years.

(c) Installation placed out of service. Substitute the following wording for the requirements in ASME A17.1 section 8.11.1.4: 1. A conveyance placed out of service shall require all of the following:

a. Removal of power feed lines from the load side terminals of the electrical disconnecting means.

b. Sealing of the disconnecting means in the open position.

c. For elevators, dumbwaiters and material lifts, securing or locking of hoistway doors and access doors.

Note: See ASME A17.1 section 8.13 for requirements relating to Group 2 security.

d. The car and counterweights, where provided, shall be secured to prevent either from falling due to suspension member or equipment failure.

e. For escalators or moving walks, barricading of entrances to prevent access. Barricades shall be constructed in accordance with the building code.

f. Inspection of subd. 1. a. to d. shall be performed by the department.

g. Approval of the building code authority where a conveyance is part of a required accessible route in an occupied building.

2. A conveyance placed out of service shall not require periodic inspections or tests.

3. A conveyance placed out of service shall require applicable periodic inspections and tests before being returned to service.

(7) PERIODIC INSPECTION AND TESTS OF ELECTRIC ELEVATORS. (a) Periodic test requirements, category 5. This is a department rule in addition to the requirements in ASME A17.1 section 8.11.2.3: Results of all category 5 tests shall be submitted to the department on department forms as specified in s. Comm 18.1015 (4) (c) 2.

(b) Car and counterweight safeties. This is a department rule in addition to the requirements in ASME A17.1 section 8.11.2.3.1: Any damaged section of wood guide rails shall be replaced.

(8) PERIODIC INSPECTION AND TESTS OF HYDRAULIC ELEVATORS. (a) Relief valve setting and system pressure test and cylinder testing. These are department rules in addition to the requirements in ASME A17.1 section 8.11.3.2.1:

1. This section applies only to hydraulic elevators installed prior to January 1, 1994 and that have below ground cylinders.

2. Results of the relief valve setting and system pressure test shall be submitted to the department on department forms as specified in s. Comm 18.1015 (4) (c) 2.
(b) **Hydraulic cylinders and pressure piping.** These are department rules in addition to the requirements in ASME A17.1 section 8.11.3.2.2:

1. This section applies only to hydraulic elevators installed prior to January 1, 1994 and that have below ground cylinders.
2. Results of the hydraulic cylinder and pressure piping tests shall be submitted to the department on department forms as specified in s. Comm 18.1015 (4) (c) 2.

(9) **Periodic inspection and tests of escalators and moving walks.** (a) **Step/skirt performance index.** This is a department rule in addition to the requirements in ASME A17.1 section 8.11.4.2.19. Results of the step/skirt performance index test shall be submitted to the department on department forms as specified in s. Comm 18.1015 (4) (c) 2.

(b) **Clearance between step and skirt.** This is a department rule in addition to the requirements in ASME A17.1 section 8.11.4.2.20: Results of the clearance between the step and skirt shall be submitted to the department on department forms as specified in s. Comm 18.1015 (4) (c) 2.

**Compliance:**

1. Lifts conforming to ASME A18.1 sections 2.1.1 or 2.1.2 may have a pit.
2. **Ramps.** Any difference in elevation between the floor of the platform lift and floor level of the building shall be overcome by ramps complying with the building code.

**Electrical equipment.** Substitute the following wording for the requirements in ASME A18.1 section 2.1.6.2: Electrical equipment shall comply with ch. Comm 16.

Subchapter VI — Changes, Additions or Omissions to ASME A18.1

**Compliance:**

1. Operation of the lift from the landing and from the platform shall be controlled by continuous-pressure type switches. The operating devices shall be designed so that both the up and down circuits cannot be operated at the same time.

2. Lift control switches on the platform shall comply with the requirements under ICC/ANSI A117.1 – 2003 as incorporated by reference in the building code.

3. Floor designations shall comply with the requirements for equipment covered by this code as specified in ss. Comm 18.1002 and 18.1003.

4. Vertical platform lifts, inclined wheelchair lifts and stairway chairlifts may be used as permitted in the building code.

5. Any difference in elevation between the floor of the platform lift and floor level of the building shall be overcome by ramps complying with the building code.

6. The requirements in ASME A18.1 section 2.1.3 are not included as part of this chapter.

7. Lifts conforming to ASME A18.1 sections 2.1.1 or 2.1.2 may have a pit.

8. **Operating devices and control equipment.** (a) **Operation.** Substitute the following wording for the requirements in ASME A18.1 section 2.10.1: Platform lifts shall comply with all of the following:

   (1) **Rated load.** The rated load shall be at least 750 lbs.

   (b) **Sustaining and lowering a load.** The lift shall be capable of sustaining and lowering a load as specified in ASME A18.1 Figure 9.7.

   (c) **Rated speed.** The rated speed shall not exceed 30 feet per minute.

9. Control switches at the landings shall comply with the requirements under ICC/ANSI A117.1 sections 407.2.1 and 407.2.1.1 to 407.2.1.4.

10. Floor designations shall comply with the requirements under ICC/ANSI A117.1 section 407.2.3.1.

11. Lift control switches on the platform shall comply with the requirements under ICC/ANSI A117.1 section 407.4.6.2 and 407.4.7.1.1 to 407.4.7.1.3.

12. Emergency communications shall comply with the requirements under ICC/ANSI A117.1 section 407.4.10.2.
(b) Electrical equipment and wiring. Substitute the following wording for the requirements in ASME A18.1 sections 2.10.9.1 and 2.10.9.2: Electrical equipment shall comply with ch. Comm 16.

(c) Manual operation. Substitute the following wording for the requirements in ASME A18.1 section 2.10.10: Means shall be provided to permit authorized personnel from a position outside of the runway enclosure to raise or lower the platform manually in the event of power failure, unless standby power is provided.

(9) Emergency signals. Substitute the following wording for the requirements in ASME A18.1 sections 2.11.1 and 2.11.2:

(a) Authorized personnel continuously available on site. In buildings where authorized personnel are continuously available on site, lifts shall be provided with an audible signaling device, operable from the emergency stop switch, marked also with “ALARM” or from a separate switch marked “ALARM” which is located in or adjacent to the platform operating panel. The switch marked “ALARM” shall illuminate when actuated. The audible signaling device shall comply with all of the following:

1. Have a rated sound pressure rating of not less than 80 dBA and no more than 90 dBA at 10 feet (3 m).
2. Respond without delay after the switch has been activated.
3. Be located inside the building and audible inside the platform and outside the runway.

(b) Authorized personnel not available. In buildings where authorized personnel are not continuously available within the building, the platform shall be provided with a means within the platform for communicating with or signaling to authorized personnel responsible for taking appropriate action. The communications or signaling means shall remain operable during a failure of the normal building power supply. The power source shall be capable of providing for the operation of all of the following:

1. The audible signaling device and illumination of the alarm switch or visual identification for at least one hour.
2. The signaling and communications means for at least four hours.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: r. and recr. (1), (2) and (8) (a), am. (4) to (8) and (9) (intro.), r. (7) (d) and (8) (b), renum. (8) (c) and (d) to be (6) (b) and (c) Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1803 Inclined platform lifts. (1) RUNWAYS.

(a) Means of egress. Substitute the following wording for the requirements in ASME A18.1 section 3.1.1: Lifts shall be installed so that the means of egress is maintained as required in the building code. The minimum means of egress width shall be measured with the lift in its operational position.

Note: See IBC chapter 10 for means of egress requirements.

(b) Ramps. Substitute the following wording for the requirements in ASME A18.1 section 3.1.4: Any difference in elevation between the floor of the platform lift and the floor level of the building shall be overcome by ramps complying with the building code.

(c) Electrical equipment and wiring. Substitute the following wording for the requirements in ASME A18.1 section 3.1.6: Electrical equipment shall comply with ch. Comm 16.

(2) PLATFORM AREA. Substitute the following wording for the requirements in ASME A18.1 section 3.6.4:

(a) The net platform area for a lift complying with ASME A18.1 section 3.6.8.1 shall have a minimum clear width of 36 inches and a minimum clear length of 54 inches.

(b) The net platform area of a lift complying with ASME A18.1 section 3.6.8.2 shall not exceed 12 square feet and shall have a minimum clear width of 30 inches and a minimum clear length of 48 inches.

(3) Capacity, load, speed, and angle of inclination. (a) Limitations of capacity, load, and speed. Substitute the following wording for the requirements in ASME A18.1 section 3.7.1:

1. An inclined platform lift shall be limited to serve 3 stops and 2 consecutive stories.
2. The capacity shall be one person.
3. The rated load shall be not less than 450 pounds and not greater than 750 pounds. The lift shall be capable of sustaining and lowering a load as specified in ASME A18.1 Figure 9.7.
4. The rated speed measured along the incline shall not exceed 30 feet per minute.

(b) Capacity plate. This is a department rule in addition to the requirements in ASME A18.1 section 3.7.3: A sign stating the capacity of the lift shall be posted at each landing or on the lift in a conspicuous location. Lettering for this sign shall be a minimum of one−inch high and shall comply with ICC/ANSI A117.1 section 703.3.

Note: See informational note under s. Comm 18.1801 (1) for statute definition of “access.”

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am., r. (2) (b) and (4), renum. (2) (a) (intro.), 1. and 2. to be (2) (intro.), (a) and (b) Register December 2008 No. 636, eff. 1−1−09; correction to renumbering made under s. 13.92 (4) (b) 1., Stats., Register December 2008 No. 636.

Comm 18.1804 Inclined stairway chairlifts. (1) General. This is a department rule in addition to the requirements in ASME A18.1 section 4 intro. paragraph: Stairway chairlifts complying with this section may not be used as part of an accessible route in public buildings or places of employment.

Note: See the building code and the ICC/ANSI A117.1 chapter 4 for acceptable components of an accessible route.

(2) RUNWAYS. Substitute the following wording for the requirements in ASME A18.1 section 4.1.1: Inclined stairway chairlifts shall be installed to maintain the minimum means of egress requirements specified in the building code. The minimum means of egress width shall be measured with the lift in its operational position.

(3) Limitations of capacity, load, and speed. This is a department rule in addition to the requirements in ASME A18.1 section 4.7.1: An inclined stairway chairlift shall be limited to serve 3 stops and 2 consecutive stories.

(4) Electrical equipment and wiring. Substitute the following wording for the requirements in ASME A18.1 sections 4.10.3.1 and 4.10.3.2: Electrical equipment shall comply with ch. Comm 16.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1805 Private residence vertical platform lifts. Substitute the following wording for the requirements in ASME A18.1 section 5: Private residence vertical platform lifts are prohibited installations in public and common use areas within public buildings or places of employment.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1806 Private residence inclined platform lifts. Substitute the following wording for the requirements in ASME A18.1 section 6: Private residence inclined platform lifts are prohibited installations in public and common use areas within public buildings or places of employment.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1807 Private residence inclined stairway chairlifts. Substitute the following wording for the requirements in ASME A18.1 section 7: Private residence inclined stairway chairlifts are prohibited installations in public and common use areas within public buildings or places of employment.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. Register December 2008 No. 636, eff. 1−1−09.
Comm 18.1808 Hydraulic driving means. These are department rules in addition to the requirements in ASME A18.1 section 8.1:

(1) Shutoff valves. A manually operated shutoff valve shall be provided between the hydraulic machines and the hydraulic cylinder and shall be located outside the hoistway and adjacent to the hydraulic machine on all hydraulic platform lifts with separate bypass connection that the valve cannot be shut off from the hydraulic system.

(2) Pump relief valve. (a) General. Except as specified in par. (b), each pump or group of pumps shall be equipped with one or more relief valves conforming to all of the following requirements:

1. The relief valve shall be located between the pump and the check valve and shall be of such a type and so installed in the bypass connection that the valve cannot be shut off from the hydraulic system.
2. The size of the relief valve and bypass shall be sufficient to pass the maximum rated capacity of the pump without raising the pressure more than 50% above the working pressure. Two or more relief valves may be used to obtain the required capacity.
3. Relief valves shall be sealed after being set to the correct pressure.

(b) No relief valve. A relief valve is not required for centrifugal pumps driven by induction motors, provided the shut-off, or maximum pressure that the pump can develop, is not greater than 135% of the working pressure at the pump.

(3) Check valve. A check valve shall be provided and shall be so installed that it will hold the platform lift with rated load at any point when the pump stops and the down valves are closed or the maintained pressure drops below the minimum operating pressure.

(4) Pressure gauge fittings. A pressure gauge fitting with shutoff valve shall be provided on the cylinder side of the check valve or immediately adjacent to the hydraulic control valve.

(5) Type tests, certification, and marking plates for control valves. (a) Engineering tests and certification process. Each type or model and make of hydraulic control valve shall be subjected to the engineering tests and to the certification process as specified in ASME A17.1 section 8.3.5, except ASME A17.1 section 8.3.5.3.1. (b) Hydraulic controls. Hydraulic control valves shall be plainly marked in a permanent manner with all of the following information:

1. Certifying organization’s name or identifying symbol.
2. The name, trademark, or file number by which the organization that manufactured the product can be identified.
3. Type designation.
4. Component-rated pressure.
5. Electrical coil data.

(6) Overspeed valves. When provided, overspeed valves and their connections and attachments shall conform to ASME A17.1 section 3.19.4.7.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. (intro.) and (1) Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1809 Wedge rope sockets. These are department rules in addition to the requirements in ASME A18.1 section 9.8: When wedge rope sockets are provided, they shall conform to the requirements of ASME A17.1 section 2.20.9.5.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 08−030: am. Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1810 Routine, periodic, and acceptance inspections and tests. (1) General requirements. (a) Routine inspections and tests. Substitute the following wording for the requirements in ASME A18.1 sections 10.1.1 and 10.1.2.1:

Licensed elevator inspectors performing routine and periodic inspections and tests for equipment covered under this subchapter shall comply with s. Comm 18.1015 (1), (2) (a), and (4) (b) and (c).

(b) Acceptance inspections and tests. Substitute the following wording for the requirements in ASME A18.1 section 10.1.3.1:

Licensed elevator inspectors performing acceptance inspections and tests for equipment covered under this subchapter shall comply with s. Comm 18.1015 (1), (2) (b) and (c), and (4) (a).

(2) Inspection and test periods. Substitute the following wording for the requirements in ASME A18.1 section 10.2.1. The routine inspections and tests of ASME A18.1 sections 2, 3 and 4 shall be made at intervals not longer than 1 year.

History: CR 03−047: cr. Register March 2004 No. 579, eff. 4−1−04; CR 07−089: am. (1) Register June 2008 No. 630, eff. 7−1−08; CR 08−030: am. (1), r. and recr. (2) Register December 2008 No. 636, eff. 1−1−09.

Comm 18.1820 Courtroom lifts. (1) Runways. Runways shall be installed in accordance with ASME A18.1 sections 2.1.1, 2.1.2, 2.1.3 or 2.1.4. Lifts conforming to ASME A18.1 section 2.1.4 shall be located in courtroom areas not open to the public and under the supervision of court officials. Runway construction for lifts that penetrate a floor must comply with ASME A18.1 section 2.1.1 and with the building code.

(2) Runway entrances. (a) The runway entrance shall be guarded at the uppermost landing by a door of unperforated construction. The door shall be self−closing or power−operated, at a height not less than 900 mm (36 in.), and withstand, without permanent deformation, a force of 125 lbf (550 N) applied on any 100mm (4 in.) by 100mm (4 in.) area. The door shall be located not more than 75 mm (3 in.) from the platform sill.

(b) Intermediate landing entrances shall be guarded in accordance with the requirements of ASME A18.1 sections 2.1.4.2.1 or 2.1.4.2.2.

The runway entrance at any intermediate landing entrance shall be guarded by a self closing or power−operated door of unperforated construction not wider than the entrance to the platform plus 25 mm (1 in.). The door shall be a minimum height of 150 mm (6 in.) and extend to the top landing plus 75 mm (3 in.). The lift side of the door and sill shall present a smooth surface located not closer than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.) from the edge of the platform floor.

2. Any intermediate landing entrance shall be guarded by a self closing or power−operated guard of smooth, solid construction not wider than the entrance to the platform plus 25 mm (1 in.) and of a height not less than 150 mm (6 in.). The side of the platform facing the intermediate landing shall be provided with a platform mounted guard of smooth, solid construction, at least the width of the landing entrance and of a height not less than 150 mm (6 in.).

(c) The area under the platform shall be fully enclosed by smooth guards, either telescoping or stationary, on all accessible platform sides. The guards shall withstand, without permanent deformation, a force, of 550 N (125 lbf) applied on any 100 mm (4 in.) by 100 mm (4 in.) area. Shutter−type (telescoping) guards, if provided, shall be securely fastened to the lower landing level and to the platform. Openings necessary for operation of guards shall reject a ball 12 mm (0.5 in.) in diameter.

(d) A vertical fascia shall be provided from the top terminal landing sill and any intermediate landing sill to the level of the bottom terminal landing sill. Openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter. The fascia shall guard the full width of the platform. The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm (4 in.) by 100 mm (4 in.) area. The clearance between the vertical fascia and platform edge shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.) wide.

(e) The runway entrance shall be guarded at the lower landing by a door of unperforated construction. The door shall be self−closing or power−operated, at a height not less than 900 mm (36 in.), and withstand, without permanent deformation, a force of
550 N (125 lbf) on a 100 mm (4 in.) area. The clearance between the lower landing door and platform edge shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.).

(f) The sides of the platform not used for entrance or exit shall be guarded by stationary runway or platform mounted sidewalls of solid construction with no openings, other than those necessary for the operation of the lift. Those openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter. Platform mounted sidewalls shall be at a height not less than 900 mm (36 in.). The running clearance between a platform mounted sidewall and stationary surfaces shall be not less than 50 mm (2 in.) nor more than 75 mm (3 in.). Stationary runway sidewalls shall be at a height not less than 900 mm (36 in.) above the lower landing. The clearance between stationary runway sidewalls and the platform shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.).

(g) All doors guards shall be provided with a combination mechanical lock and electric contact. Locking devices shall be protected against tampering from the landing side. The locking devices shall permit a door guard to be opened only if the platform floor is within 50 mm (2 in.) of the respective landing. The platform shall be permitted to move away from the landing under control of the normal operating device if the door/guard is closed but not locked, provided that the devices will cause the platform to stop if it moves away from the landing more than 50 mm (2 in.) before the door/guard is locked.

(3) FLOOR AREA. The inside net floor area of lifts conforming to ASME A18.1 sections 2.1.1, 2.1.2, and 2.1.3 shall not exceed 1.7 m² (18 ft²). The inside net floor area of lifts conforming to ASME A18.1 section 2.1.4 shall not exceed 2.3 m² (25 ft²).

(4) LIMITATION OF LOAD, SPEED AND TRAVEL. The rated load shall be not less than 200 kg (450 lb) nor more than 475 kg (1050 lb). Platforms with a floor greater than 1.4 m² (15 ft²) shall have rated load of not less than 340 kg (750 lb). Platforms with a floor greater than 1.7 m (18 ft²) shall have rated load of not less than 475 kg (1050 lb). The lift shall be capable of sustaining and lowering a load as specified in ASME Fig. 9.7. The rated speed shall not exceed 0.15 m/s (30 ft/min). Travel of lifts conforming to ASME A18.1 sections 2.1.1 and 2.1.2 shall not exceed 4250 mm (168 in.). Travel of lifts conforming to ASME A18.1 section 2.1.3 shall not exceed 1500 mm (60 in.). Travel of lifts conforming to ASME A18.1 section 2.1.4 shall not exceed 600 mm (24 in.).

History: CR 08–030: cr. Register December 2008 No. 636, eff. 1–1–09.